0 000000000000

$$0100000 \stackrel{f(X)}{=} 00000$$

$$200 \times 900 f(x) > \ln x - x^2 - x - 3$$

$$0 \quad 1 \quad 0 \quad a = 1 \quad 0 \quad 0 \quad f(x) \geq 0 \quad 0$$

$$3002021 \cdot 0000 \cdot 000000000 f(x) = \ln x g(x) = kx^2 - 2x(k \in R)$$
.

$$20000 g(\vec{x}) = f(\vec{x}) - \frac{1}{2}\vec{x}^2 - \frac{1}{2}\vec{a}^2 0 0 \mathbf{1}_{X \ge 0} 0 0 g(\vec{x}) \ge 0 0 0 0 0 0 0 0 \mathbf{1}_{0} \mathbf{1}_{0}$$

$$5002021 \cdot 00 \cdot 0000000 f(x) = e^{x} - 2x + \sin x \cdot 0 g(x) = \frac{1}{3}x^{3} - 2x + 2\sin x + m_{0}$$

$$200 \, {}^{X \geq 0} 00 \, {}^{f(X)} \geq g(X) \, 00000 \, \boldsymbol{m} \, 000000$$

$$0100^{a=2}0000^{f(x)}0^{(0,2\tau)}000000$$

$$0.2000000 \stackrel{X \in \left(0, \frac{\pi}{2}\right)}{0.0} f(x) < 3x_{0.0000} a_{0.0000}.$$

7002021 · 0000 · 00000000
$$f(x) = 2a - \frac{1}{x} - \ln x (a \in Z)$$

 $\square 1 \square \square \square \square f(x) \square \square \square$

$$2000 g(x) = \frac{2 + \ln x}{x}$$

$$1000 \forall x \in (1, +\infty)$$

$$1000 f(x) < g(x)$$

$$10000 a$$

$$200 \quad {^{f(\vec{x})} \geq 0} \quad 000000 \quad {^{\partial}} \quad 000000$$

$$10 - 2021 \cdot - - - - - - - f(x) - \frac{1 + \ln(x+1)}{x}$$
.

$$|2| |x>0| |f(x)> \frac{k}{x+1} | |x| | |x|$$

$$0100^{a} = 100^{f(x)} 00000$$

 $2000000 \stackrel{X \in (0,+\infty)}{=} 000 \stackrel{f(X)}{=} 1 \leq X e^{3x} 00000 \stackrel{a}{=} 00000.$

 $13 - 2021 \cdot - 3 \cdot 2000 - 3 \cdot 20$

 $\Box 1 \Box \Box \Box \Box f(x) \Box \Box \Box \Box \Box$

 $||2|||f(x)|| \ge \ln x ||0||| a ||0|||0||$

 $0100^{a} = 1000000^{f(x)}$

 $20000 \stackrel{f(x)}{=} f(x) - g(x) \stackrel{f(x)}{=} 0 \stackrel{f(x)}{=} 0$

 $0100000 \stackrel{f(X)}{\longrightarrow} 00000$

 $0100^{a=e_{00}}f(x)$

 $\Box 1 \Box \Box f(x) \Box \Box \Box$

 $0100^{\textstyle k=-1}00000^{\textstyle f(x)}0000$

020000 $g(x) = f(x) + \hat{e}_0 x \in (0, +\infty)$

0300000 $f(x) > 3x_{0000} x \in \mathbf{R}_{00000000} k_{000000}$

21002021·0000·00000000 $f(x) = -2x^2 + \frac{1 + \ln x}{x}, g(x) = e^{2x} - 2x^2 - a_0$

 $200000 \frac{g(x)}{2} \geq f(x) \frac{1}{2} \frac{1$

 $010000 \stackrel{f(X)}{\longrightarrow} 000000$

 $2000 \quad \forall X > 0 \quad f(X) \ge aX^2 + 1 \quad 000000 \quad a \quad 000000$

$$\ln y = \ln f(x)^{k(x)} = k(x) \ln f(x) = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) + k(x) \frac{f(x)}{f(x)} = \lim_{x \to \infty} f(x) \ln f(x) = \lim_{x \to \infty} f(x) = \lim_{x \to \infty}$$

$$y' = h(x)^{k(x)} \left[k'(x) \ln h(x) + k(x) \frac{h(x)}{h(x)} \right] \cdot \square \square f(x) = x^{x} \left(x \in (0, +\infty) \right) \square g(x) = \frac{a}{2} x^{2} + \frac{1}{2} (a \in R).$$

$$010000 \stackrel{Y=f(X)}{=} X=1 0000000$$

$$20000 g(x) = x \ln x + 1_{00} f[g(x)] \ge f(x)_{0} x \in (0, +\infty)$$

26__2021.__.___
$$f(x) = e^x - x - \frac{x^2}{2}$$
_

$$200 g(x) = f(x) - 1 - \frac{x^2}{2} + a(1 - \cos x) = 0000000 x(0) x(0) = 0 = 0$$

$$200 \quad f(x) > \partial e^x \ln x \quad \forall x \in (0,1) \quad 0000000 \quad \partial 000000$$

 $\text{deg}(e^x) \geq e^x$

 $200000 \stackrel{X>0}{\longrightarrow} \stackrel{f(\vec{x})\geq 0}{\longrightarrow} \stackrel{k}{\longrightarrow} 00000$

 $29002021 \cdot 00 \cdot 0000000000 \stackrel{f(x)}{=} = x (\ln x + x - a) \underset{\square}{=} a \in \mathbf{R}_{\square \square} \stackrel{f(x)}{=} > -2 \underset{\square}{=} 00000 \stackrel{a}{=} 000000$



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